



SEQUENCE LISTING

<110> Thomae, Bianca A.
Wieben, Eric D.
Weinshilboum, Richard M.
Wood, Thomas C.

<120> Arsenic Methyltransferase Sequence
Variants

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tccttccact	ttaacaactt	cacctacttc	tttgcgtcgt	atagaacttc	ttaagttcta	1020
aacgagttct	aaaagactag	tctgggttaac	ctctcttcaa	cggttgtaga	cctccgacaa	1080
gacgaaacct	caatttccta	tattagtgtc	taggttaaatt	cgaacgtctt	ctcagactgt	1140
catacttcag	gtctacacag	ggactacgac	gacctccgac	gacaccgtgt	ttcttttcga	1200
cgatttagat	atcggttgggt	ccccgtgtgt	catcacccgt	tctcactaga	cgtacaaaaa	1260
attggacgaa	aaggggtatc	gtgtctggta	ttctttgttg	tttactcgggt	gacgcggggcc	1320
ggtatcttact	taataaaaaa	tctccgtaac	taattttctaa	gtgtcgttta	gtgatcaatt	1380

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cgtctaaaaa aaagataaaag gatgaagttt caagaccacg gtgtatcacc agtctttacc 1440
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caaccgtctc ccagagtcct tttttagtaa ggaagactag aaaacgtatc gtggaaaacc 1560
ttaaaagtag tacaaacgaa taatttgttt cgaggatgac ggtagtatga ttagtacgtt 1620
tttctaacgg tttagtacaa accatcctcc tgaaaactcc atcgaaaact tgtttacaaa 1680
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<210> 5
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<212> PRT
<213> Homo Sapiens

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Tyr Gly Gln Val Leu Lys Arg Ser Ala Asp Leu Gln Thr Asn Gly Cys
 20          25          30
Val Thr Thr Ala Arg Pro Val Pro Lys His Ile Arg Glu Ala Leu Gln
 35          40          45
Asn Val His Glu Glu Val Ala Leu Arg Tyr Tyr Gly Cys Gly Leu Val
 50          55          60
Ile Pro Glu His Leu Glu Asn Cys Trp Ile Leu Asp Leu Gly Ser Gly
 65          70          75          80
Ser Gly Arg Asp Cys Tyr Val Leu Ser Gln Leu Val Gly Glu Lys Gly
 85          90          95
His Val Thr Gly Ile Asp Met Thr Lys Gly Gln Val Glu Val Ala Glu
100          105          110
Lys Tyr Leu Asp Tyr His Met Glu Lys Tyr Gly Phe Gln Ala Ser Asn
115          120          125
Val Thr Phe Ile His Gly Tyr Ile Glu Lys Leu Gly Glu Ala Gly Ile
130          135          140
Lys Asn Glu Ser His Asp Ile Val Val Ser Asn Cys Val Ile Asn Leu
145          150          155          160
Val Pro Asp Lys Gln Gln Val Leu Gln Glu Ala Tyr Arg Val Leu Lys
165          170          175
His Gly Gly Glu Leu Tyr Phe Ser Asp Val Tyr Thr Ser Leu Glu Leu
180          185          190
Pro Glu Glu Ile Arg Thr His Lys Val Leu Trp Gly Glu Cys Leu Gly
195          200          205
Gly Ala Leu Tyr Trp Lys Glu Leu Ala Val Leu Ala Gln Lys Ile Gly
210          215          220
Phe Cys Pro Pro Arg Leu Val Thr Ala Asn Leu Ile Thr Ile Gln Asn
225          230          235          240
Lys Glu Leu Glu Arg Val Ile Gly Asp Cys Arg Phe Val Ser Ala Thr
245          250          255
Phe Arg Leu Phe Lys His Ser Lys Thr Gly Pro Thr Lys Arg Cys Gln
260          265          270
Val Ile Tyr Asn Gly Gly Ile Thr Gly His Glu Lys Glu Leu Met Phe
275          280          285
Asp Ala Asn Phe Thr Phe Lys Glu Gly Glu Ile Val Glu Val Asp Glu
290          295          300
Glu Thr Ala Ala Ile Leu Lys Asn Ser Arg Phe Ala Gln Asp Phe Leu
305          310          315          320
Ile Arg Pro Ile Gly Glu Lys Leu Pro Thr Ser Gly Gly Cys Ser Ala
325          330          335
Leu Glu Leu Lys Asp Ile Ile Thr Asp Pro Phe Lys Leu Ala Glu Glu
340          345          350

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Ser Asp Ser Met Lys Ser Arg Cys Val Pro Asp Ala Ala Gly Gly Cys
 355 360 365
 Cys Gly Thr Lys Lys Ser Cys
 370 375

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<210> 7
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 7
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<210> 8
 <211> 18
 <212> DNA
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<220>
 <223> Primer

<400> 8
 caggaaacag ctatgacc 18

<210> 9
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 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 9
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<210> 10
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<220>
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<400> 10
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 <220>
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 <212> DNA
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Leu Lys Arg Ser Ala Asp Leu Gln Cys
 20 25

<210> 32
 <211> 20
 <212> PRT
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<400> 32
 Asp Ile Ile Thr Asp Pro Phe Lys Leu Ala Glu Glu Ser Asp Ser Met
 1 5 10 15
 Lys Ser Arg Cys
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<210> 33
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<220>
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<400> 33
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<210> 34
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<220>
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<400> 34
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<210> 35
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 <212> DNA
 <213> Homo Sapiens

<400> 35
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<210> 36
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 <212> DNA
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<400> 36
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